



RIO18
21st World Congress
of Soil Science

21 WORLD CONGRESS OF SOIL SCIENCE

August 12-17, 2018

Rio de Janeiro, Brazil

Rio de Janeiro August | 12 - 17

E4 - SOILS AND LANDSCAPES IN AGROECOLOGICAL TRANSITION WITHIN THE ATLANTIC FOREST BIOME

Summary: The tour will leave from Rio on Saturday morning, taking the highway to Juiz de Fora (200 km), with a stop in Serra de Petropolis for an overview of the geology, geomorphology, soils and land occupation history after 1500. Next stop will be a visit and lunch in an Agrarian Reform Settlement near Juiz de Fora (30 km) that was a huge colonial coffee hacienda. The tour follows on a scenic road to Viçosa (180 km), throughout the typical "sea of hills" landscape of this part of the country. Day ends with a visit to the Federal University of Viçosa and an overview of the observations and facts from the day. Participants overnight in a hotel in Viçosa. The second day starts with a trip (60 km) to the town of Araponga. There the programme starts with a visit to a family farm that grows coffee (and much more) in agroecological transition since 1993. Next, a visit to an agricultural family school (EFA Puris), where lunch will be served. Afternoon another family property specialized in high quality organic coffee will be visited with an optional trek to the top of the Pedra Redonda mountain. Soil formation and restoration under agroecological management will be observed and discussed in both farms. Overnight will be in a hotel in Araponga. Next morning the tour starts with a visit to the State Park Serra do Brigadeiro (an Atlantic Forest conservation unit). The participants will be informed about the unit and its history and will make a 1½ to 3h walk through the forest to observe fauna, flora, soils and landscape: an unforgettable experience! Lunch will be in a simple typical rural restaurant in a village near the Park and in the way back to the park the tour stops at the Cachoeira do Piu waterfall. Next, a visit to the east side of the Park on a look out point to observe vegetation, geomorphology and geology ends the visit. The bus returns to Viçosa, for a cultural farewell in a local NGO and overnight in a hotel in Viçosa. Next morning the bus goes back to Rio (380 km, 6-7 hours, arrival between 15 and 16h).

Period:

Post event; 18-21 August, 2018; 903 km

Guides: Cristine Carole Muggler (Professor) and Martin Meier (PhD student), Soil Science Department, Federal University of Viçosa.

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Attention:

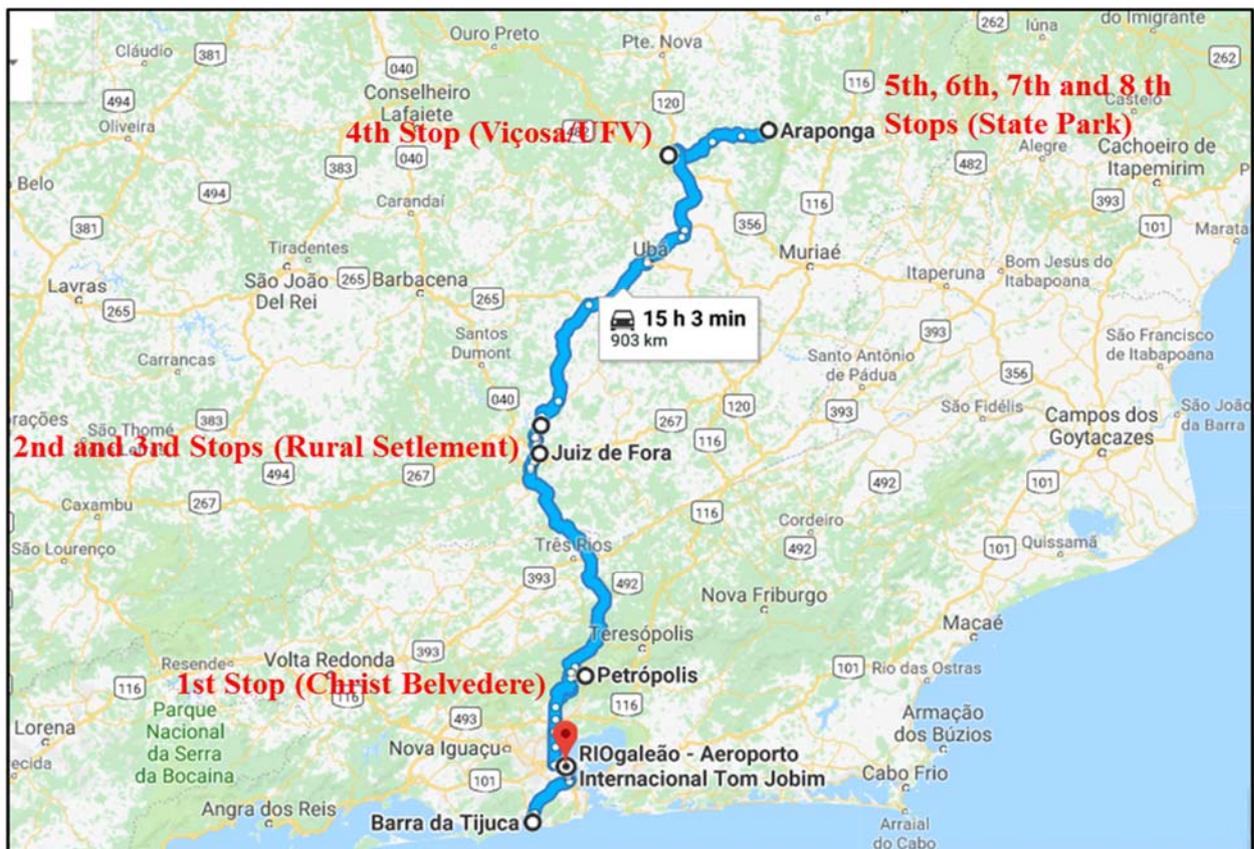
All participants are responsible for their own arrival at the meeting point on time where the tour begins (7:00 am). We recommend you be prepared for an European autumn climate. The use of clothes suitable for trekking activities is necessary (hat, adequate shoes, light-weight clothing, sunscreen and sunglasses). The tour goes around the country side of Minas Gerais: don't expect fancy accommodations and restaurants and be surprised by tasty simple (organic, agroecological) food and amazing hospitality! Enjoy, ask questions, make proposals, catch your breath, tell stories, and take home products, pictures and inspiration.

Itinerary:

| Day/Month | Description |
|-------------------|--|
| 18/08 Saturday | <p><i>Morning:</i> departure from Rio de Janeiro, passing through the mountains and stopping on Serra de Petropolis (1°. Stop). We continue on to Juiz de Fora to the Dênis Gonçalves rural settlement, where we will have lunch (2°. Stop).</p> <p><i>Afternoon:</i> visit to the settlement, addressing aspects of land use, soil conservation, management in agriculture, geology, soil and geomorphological formations (3°. Stop). Then, we proceed to Viçosa, with a quick visit to the campus of the Federal University (UFV) and then to the Alfa Hotel to rest (4°. Stop).</p> |
| 19/08 Sunday | <p><i>Morning:</i> breakfast at the hotel and departure to Araponga to an agroecological farm for a technical visit. The proposal is to discuss soil conservation, with a presentation of family history, the management they perform and the conservation practices they apply. It is a region of deep and very weathered soils. We will visit the crop area and observe the soil profile to discuss conservation aspects (5°. Stop).</p> <p><i>Lunch:</i> near the property, food will be available at the Farm Family School (EFA – Puris).</p> <p><i>Afternoon:</i> We will go to the Round Rock ("Pedra Redonda") community and visit a coffee farm, where we will get to know another conservation experience in agriculture in an area of more recent and shallower soils. We will climb the stone in a light walk to view the landscape and discuss the geomorphology of the coffee region and the influence of conservation on agriculture (6°. Stop).</p> <p><i>Night:</i> Return to downtown Araponga, with dinner and rest in the hotel.</p> |
| 20/08 Monday | <p><i>Morning:</i> breakfast at the hotel and departure to Serra do Brigadeiro State Park (7°. Stop). There we will visit the structure, addressing the process of setting up the park and the relationship with the surrounding communities; we will tour the built-up area and facilities, and finally we will walk along different forest trails of differing degrees of difficulty.</p> <p><i>Lunch:</i> In the State Park itself.</p> <p><i>Afternoon:</i> We will cross through the coastal park, with a stop at the lookout, where we will address the question of geomorphology, and in a stop at the Pedra do Pato, discuss geology. Then we will continue to the</p> |

| | |
|------------------|--|
| | <p>Piu waterfall for a final activity of relaxation in the Tour, with a snack (8º Stop).</p> <p><i>Night:</i> We return to the hotel in Viçosa to freshen up and end with a small party at the NGO - Alternative Technologies Center (CTA), where there will be a photo exhibition of local works and a celebration with a local cultural presentation.</p> |
| 21/08 Tuesday | Morning: Breakfast at the hotel and then the trip back to Rio de Janeiro. |

Travel map:



Cost per person: US\$ 500

Tour includes: Bus transportation, accommodations and meals, staff for assistance and guide with descriptions, translation, and all the logistics.

Group: 15-20 people. If we don't reach the minimum number of participants, the excursion will not take place and payment will be refunded.

Accommodation:

| Day | Hotel |
|-------|---|
| 18/08 | Viçosa: Alfa Hotel |
| 19/08 | Araponga: Pousada Dias Felizes ("Happy Days Inn") |
| 20/08 | Viçosa: Alfa Hotel |

Places to be visited

18 August – Saturday



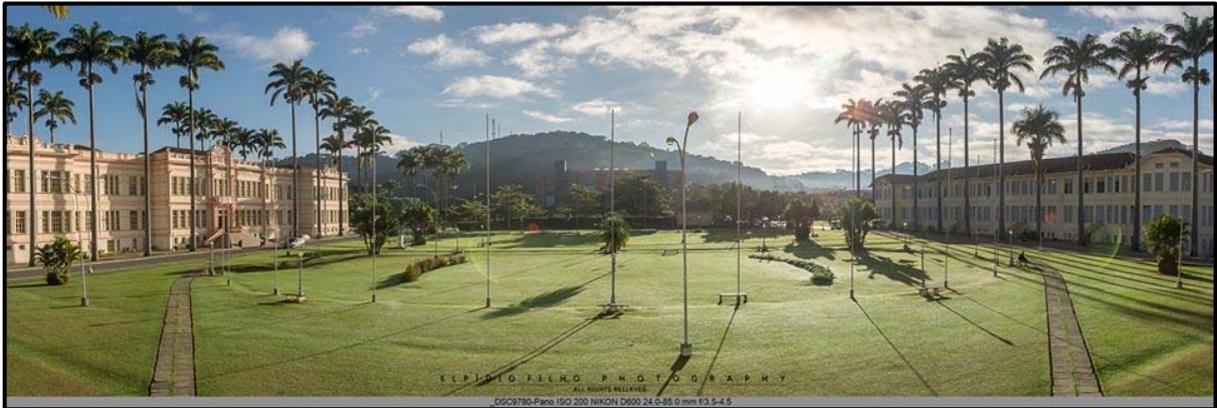
Christ Lookout, Petrópolis

The purpose of the stop is to observe the mountain landscape and discuss soil formation, geomorphology, geology and land use and occupation.



Dênis Gonçalves Rural Assessment

The purpose of the stop is to discuss land use and occupation, agricultural production, soils and geomorphology, conventional soil mapping, digital soil mapping and Agrarian Reform in an old farm, which included a large coffee farm in the XIX century, with the labor of more than 300 slaves at the time.

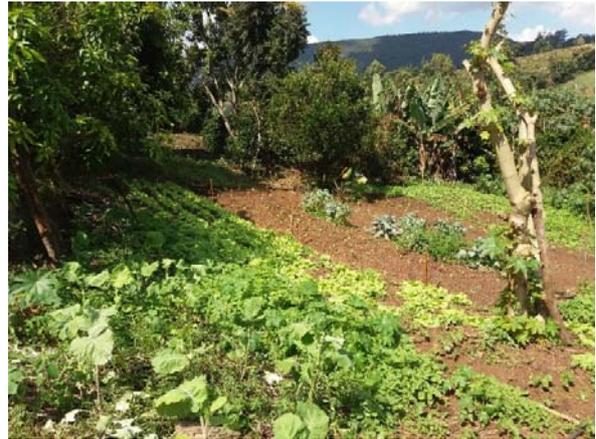


In Viçosa, at the end of the first day, we will visit the Federal University of Viçosa - UFV, one of the most distinguished institutions for training of agricultural scientists and development of studies in the various areas of soil research. It will be a time to visit museums, libraries, departments, historic buildings and campus areas where academic activities are developed. This visit is relevant as it embodies the context of the rest of the trip.

19 August – Sunday



Municipality of Araponga, MG, within the mining area, where the main agricultural uses are coffee and pastures, with subsistence farming practices. Soil conservation is a strategic management practice and we will get to know a family farm that manages its area within the perspective of conservation.



August 20th – Monday



The purpose of the stop at Serra do Brigadeiro State Park is to provide Congress participants with the opportunity to visit a conservation unit of great importance in the region and discuss how it was created. The history of the Park will be presented, and we will visit its structures. The Park's interpretive trails will be divided into two groups, advanced and basic. They will provide an experience in the Atlantic Forest and cover the soils of the region.





The next stop is still inside the park but on the east side, already in the municipality of Fervedouro. We will observe the landscape from the belvedere, and then rock formations, like the "Pedra do Pato", in that location. To close, we will visit the "Pio" Waterfall as a time to celebrate the trip and provide a moment of relaxation in nature. After that, we will return to Viçosa, MG, where there will be dinner and a small party at the NGO - Alternative Technologies Center – CTA (www.ctazm.org.br) as a farewell.